

Title (en)

DISC RECLINER WITH INTEGRAL TRAVEL STOPS

Title (de)

SCHEIBENNEIGUNGSVERSTELLER MIT INTEGRALEN BEWEGUNGSANSCHLÄGEN

Title (fr)

DISPOSITIF D'INCLINAISON À DISQUE AVEC BUTÉES DE FIN DE COURSE FORMANT UN SEUL BLOC AVEC LE DISPOSITIF D'INCLINAISON

Publication

EP 2293960 B1 20170104 (EN)

Application

EP 09756986 A 20090525

Priority

- CA 2009000715 W 20090525
- US 5795208 P 20080602

Abstract (en)

[origin: WO2009146524A1] A disc recliner mechanism includes travel stops to limit angular movement of a seat back through a defined range. At least one pawl on a guide plate of the disc recliner mechanism includes a guide boss with a pair of opposite stop surfaces that contact a respective travel stop formed on a tooth plate of the disc recliner mechanism to limit the range of rotational movement of the tooth plate. The guide boss includes a guide surface which engages a guideway on the tooth plate to provide a free movement range wherein the tooth plate can be rotated through the free movement range without requiring the operation of a release mechanism. The guideways on the tooth plate and the guide bosses on the pawls are designed such that the tooth plate and pawls can be formed with simple stamping operations.

IPC 8 full level

B60N 2/235 (2006.01); **B60N 2/20** (2006.01)

CPC (source: EP KR US)

B60N 2/20 (2013.01 - EP US); **B60N 2/22** (2013.01 - KR); **B60N 2/235** (2013.01 - KR); **B60N 2/236** (2015.04 - EP US)

Citation (examination)

US 6626495 B2 20030930 - OKAZAKI HIROYUKI [JP], et al

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2009146524 A1 20091210; CA 2721963 A1 20091210; CA 2721963 C 20160920; CN 102046415 A 20110504; CN 102046415 B 20130710; EP 2293960 A1 20110316; EP 2293960 A4 20120201; EP 2293960 B1 20170104; KR 101568447 B1 20151111; KR 20110021836 A 20110304; US 2011084532 A1 20110414; US 8585149 B2 20131119

DOCDB simple family (application)

CA 2009000715 W 20090525; CA 2721963 A 20090525; CN 200980119952 A 20090525; EP 09756986 A 20090525; KR 20107027025 A 20090525; US 99489109 A 20090525